
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Mon Jun 04 19:15:40 EDT 2007

Reviewer Comments:

<110> ARES TRADING S.A.

<110> FAGAN, Richard Joseph

<110> DAVIDS, Andrew Robert

<110> PHELPS, Christopher Benjamin

<110> POWER, Christine

<110> BOSCHERT, Ursula

<110> CHVATCHKO, Yolande

Per 1.823 of the Sequence Rules, the <110> numeric identifier is only shown on the first applicant's line; please delete the additional <110>'s.

<140> PCT/GB2004/004772

<141> 2004-11-12

Please change the <140> to <150> and the <141> to <151>, since these are prior application data. They are not the current application number and current filing date.

Validated By CRFValidator v 1.0.2

Application No: 10579113 Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-22 13:27:47.914 **Finished:** 2007-05-22 13:27:48.874

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 960 ms

Total Warnings: 0
Total Errors: 7

No. of SeqIDs Defined: 31
Actual SeqID Count: 31

Error code		Error Description
E	249	Order Sequence Error <110> -> <110>; Expected Mandatory Tag: <120> in Header
E	249	Order Sequence Error <110> -> <110>; Expected Mandatory Tag: <120> in Header
E	249	Order Sequence Error <110> -> <110>; Expected Mandatory Tag: <120> in Header
E	249	Order Sequence Error <110> -> <110>; Expected Mandatory Tag: <120> in Header
E	249	Order Sequence Error <110> -> <110>; Expected Mandatory Tag: <120> in Header
E	249	Order Sequence Error <110> -> <110>; Expected Mandatory Tag: <120> in Header
E	250	Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

```
ARES TRADING S.A.
<110>
<110> FAGAN, Richard Joseph
<110> DAVIDS, Andrew Robert
<110> PHELPS, Christopher Benjamin
<110> POWER, Christine
<110>
      BOSCHERT, Ursula
       CHVATCHKO, Yolande
<110>
<120>
       CYTOKINE AGONIST MOLECULES
<130>
       P035815WO
       PCT/GB2004/004772
<140>
<141>
       2004-11-12
<150>
       GB0326393.6
<151>
       2003-11-12
<160>
       31
<170>
       SeqWin99, version 1.02
<210>
       1
<211>
       85
<212>
       DNA
<213>
       Homo sapiens
<400>
atgaagagag aaaggggagc cctgtccaga gcctccaggg ccctgcgcct tgctcctttt
                                                                   60
gtctaccttc ttctgatcca gacag
                                                                   8.5
<210>
       2
<211>
<212> PRT
<213>
      Homo sapiens
<400>
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
               5
                                                       15
Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp
           20
                               25
<210> 3
<211>
      342
<212>
      DNA
<213> Homo sapiens
<400>
accccctgga gggggtgaac atcaccagcc ccgtgcgcct gatccatggc accgtgggga
agtcggctct gctttctgtg cagtacagca gtaccagcag cgacaggcct gtagtgaagt
                                                                   120
ggcagctgaa gcgggacaag ccagtgaccg tggtgcagtc cattggcaca gaggtcatcg
                                                                   180
gcaccctgcg gcctgactat cgagaccgta tccgactctt tgaaaatggc tccctgcttc
                                                                   240
tragegacet geagetggee gatgagggea cetatgaggt egagatetee atcacegaeg
                                                                   300
acaccttcac tggggagaag accatcaacc ttactgtaga tg
                                                                   342
```

```
<211>
       114
<212>
      PRT
<213>
      Homo sapiens
<400>
Pro Leu Glu Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly
                                  10
Thr Val Gly Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser
           20
                               25
Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val
                           40
Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro
    50
                      55
Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu
                  70
                                      75
65
Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser
               85
                                   90
Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val
           100
                               105
                                                   110
Asp Val
<210>
<211> 282
<212> DNA
<213>
      Homo sapiens
<400>
tgcccatttc gaggccacag gtgttggtgg cttcaaccac tgtgctggag ctcagcgagg
                                                                   60
ccttcacctt gaactgctca catgagaatg gcaccaagcc cagctacacc tggctgaagg
                                                                  120
atggcaagcc cctcctcaat gactcgagaa tgctcctgtc ccccgaccaa aaggtgctca
                                                                  180
ccatcacccg cgtgctcatg gaggatgacg acctgtacag ctgcatggtg gagaacccca
                                                                   240
tcagccaggg ccgcagcctg cctgtcaaga tcaccgtata ca
                                                                   282
<210>
<211>
       94
<212>
      PRT
<213>
      Homo sapiens
<400>
Pro Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu
               5
                    10
Leu Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys
           20
                               25
Pro Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser
```

40

45

<210>

```
Arg Met Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val
   50
                      55
Leu Met Glu Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile
65
                   70
                                      7.5
                                                         8.0
Ser Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg
<210>
       7
<211>
      94
<212>
      DNA
<213> Homo sapiens
<400>
gaagaagete cetttacate atettgteta caggaggeat etteeteett gtgaeettgg
                                                                60
                                                                 94
tgacagtctg tgcctgctgg aaaccctcca aaag
<210>
      8
<211>
      31
      PRT
<212>
<213>
      Homo sapiens
<400>
Arg Ser Ser Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu
                                  1.0
Val Thr Leu Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg
                              25
<210>
      9
<211> 74
<212> DNA
<213>
      Homo sapiens
<400>
gaaacagaag aagctagaaa agcaaaactc cctggaatac atggatcaga atgatgaccg
                                                                 60
cctgaaacca gaag
                                                                 74
<210>
       10
<211>
      25
<212>
      PRT
<213> Homo sapiens
<400>
Lys Gln Lys Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln
       5
                                 10
Asn Asp Asp Arg Leu Lys Pro Glu Ala
        20
<210>
       11
       71
<211>
<212>
      DNA
<213> Homo sapiens
```

```
<400>
        11
cagacaccct ccctcgaagt ggtgagcagg aacggaagaa ccccatggca ctctatatcc
                                                                    71
tgaaggacaa g
<210>
        12
<211>
       23
<212>
      PRT
<213>
      Homo sapiens
<400>
        12
Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys Asn Pro Met Ala
                                    10
Leu Tyr Ile Leu Lys Asp Lys
            20
<210>
      13
      303
<211>
<212> DNA
<213>
       Homo sapiens
<400>
       13
gacteceegg agacegagga gaaceeggee eeggageete gaagegegae ggageeegge
                                                                    60
eegeeegget acteegtgte teeegeegtg eeeggeeget egeegggget geeeateege
                                                                    120
tetgeeegee getaeeegeg eteceeageg egeteeeeag ceaeeggeeg gacacacteg
                                                                    180
tegeegeeca gggeeeegag etegeeegge egetegegea gegeetegeg cacactgegg
                                                                    240
actgegggeg tgcacataat cegegagcaa gacgaggeeg geeeggtgga gateagegee
                                                                    300
                                                                    303
tga
<210>
       14
<211>
       100
       PRT
<212>
<213>
       Homo sapiens
<400>
Asp Ser Pro Glu Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala
                                    10
Thr Glu Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly
            20
                                25
Arg Ser Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser
                                                45
        35
                            40
Pro Ala Arg Ser Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg
    50
Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg
65
                    70
                                        75
                                                            80
Thr Ala Gly Val His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val
                85
                                    90
Glu Ile Ser Ala
            100
```

<210> 15

```
<211>
        1251
<212>
       DNA
<213>
       Homo sapiens
<400>
        15
atgaagagag aaaggggagc cctgtccaga gcctccaggg ccctgcgcct tgctcctttt
                                                                     60
gtctaccttc ttctgatcca gacagacccc ctggaggggg tgaacatcac cagccccgtg
                                                                     120
cgcctgatcc atggcaccgt ggggaagtcg gctctgcttt ctgtgcagta cagcagtacc
                                                                     180
agcagcgaca ggcctgtagt gaagtggcag ctgaagcggg acaagccagt gaccgtggtg
                                                                     240
cagtccattg gcacagaggt catcggcacc ctgcggcctg actatcgaga ccgtatccga
                                                                     300
                                                                     360
ctctttgaaa atggctccct gcttctcagc gacctgcagc tggccgatga gggcacctat
gaggtcgaga tctccatcac cgacgacacc ttcactgggg agaagaccat caaccttact
                                                                     420
gtagatgtgc ccatttcgag gccacaggtg ttggtggctt caaccactgt gctggagctc
                                                                     480
agcgaggcct tcaccttgaa ctgctcacat gagaatggca ccaagcccag ctacacctgg
                                                                     540
ctgaaggatg gcaagccct cctcaatgac tcgagaatgc tcctgtcccc cgaccaaaag
                                                                     600
gtgctcacca tcacccgcgt gctcatggag gatgacgacc tgtacagctg catggtggag
                                                                     660
aaccccatca gccagggccg cagcctgcct gtcaagatca ccgtatacag aagaagctcc
                                                                     720
ctttacatca tcttgtctac aggaggcatc ttcctccttg tgaccttggt gacagtctgt
                                                                     780
gcctgctgga aaccctccaa aaggaaacag aagaagctag aaaagcaaaa ctccctggaa
                                                                     840
tacatqqatc aqaatqatqa ccqcctqaaa ccaqaaqcaq acaccctccc tcqaaqtqqt
                                                                     900
gagcaggaac ggaagaaccc catggcactc tatatcctga aggacaagga ctccccggag
                                                                     960
accgaggaga acccggcccc ggagcctcga agcgcgacgg agcccggccc gcccggctac
                                                                     1020
tecgtgtete eegeegtgee eggeegeteg eeggggetge ceateegete tgeeegeege
                                                                     1080
taccogcgct ccccagcgcg ctccccagcc accggccgga cacactcgtc gccgcccagg
                                                                     1140
geologaget egeleggeeg etegegeage geotegegea cactgeggae tgegggegtg
                                                                     1200
cacataatcc gcgagcaaga cgaggccggc ccggtggaga tcagcgcctg a
                                                                     1251
<210>
        16
<211>
        416
<212>
       PRT
<213>
       Homo sapiens
<400>
        16
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
                                    1.0
Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
                                25
            20
Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
        35
                            40
                                                 45
Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
    50
                        55
                                             60
Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
65
                    7.0
                                        75
Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
                85
                                    90
Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Ser Asp Leu
            100
                                105
Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
```

120

125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro 135 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu 150 155 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro 165 170 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg 180 185 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu 200 Met Glu Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser 215 220 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser 230 235 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu 245 250 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys 260 265 270 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg 275 280 Leu Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg 295 300 Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu 310 315 Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly 330 325 Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly 340 345 350 Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser 355 360 Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser 370 375 Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val 390 395 His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala 405 410

<400> 17

atgaagagag aaaggggagc cctgtcaaga gcctccaggg ctctgcgcct ctctcctttt 60 gtctacctgc ttctcatcca gccagtcccc ctggaggggg tgaacatcac cagcccagta 120 cgtctgatcc acggcacagt ggggaagtcg gccctgcttt ccgtgcagta cagtagcacc 180 agcagcgaca agcccgtggt gaagtggcag ctgaagcgtg acaagccagt gaccgtggtg 240 cagtetatag geacagaggt cattggeact etgeggeetg actategaga eegtateegg 300 ctctttgaaa atggctcctt gcttctcagc gacctgcagc tggcggatga gggaacctat 360 gaagtggaga tttccatcac tgacgacacc ttcaccgggg agaagaccat caacctcacc 420 gtggatgtgc ccatttcaag gccgcaggta ttagtggctt caaccactgt gctggagctc 480 agtgaggeet teacecteaa etgeteeeat gagaatggea eeaageetag etacaegtgg 540 ctgaaggatg gcaaacccct cctcaatgac tcccgaatgc tcctgtcccc tgaccaaaag 600 qtqctcacca tcacccqaqt actcatqqaa qatqacqacc tqtacaqctq tqtqqtqqaq 660 aaccccatca gccaggtccg cagcctgcct gtcaagatca ctgtgtatag aagaagctcc 720 ctctatatca tcttgtctac aggaggcatc ttcctccttg tgaccctggt gacagtttgt 780 840 gcctgctgga aaccctcaaa aaagtctagg aagaagagga agttggagaa gcaaaactcc ttggaataca tggatcagaa tgatgaccgc ctaaaatcag aagcagatac cctaccccga 900 agtggagaac aggagcggaa gaacccaatg gcactctata tcctgaagga taaggattcc 960 tcagagccag atgaaaaccc tgctacagag ccacggagca ccacagaacc cggtccccct 1020 ggctactccg tgtcgccgcc cgtgcccggc cgctctccgg ggcttcccat ccgctcagcc 1080 cgccgctacc cgcgctcccc agcacgttcc cctgccactg gccggacgca cacgtcgcca 1140 ccgcgggccc cgagctcgcc aggccgctcg cgcagctctt cgcgctcact gcggactgca 1200 ggcgtgcaga gaatccggga gcaggacgag tcagggcagg tggagatcag tgcctga 1257

<210> 18

<211> 418

<212> PRT

<213> Mus musculus

<400> 18

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
1 5 10 15

Leu Ser Pro Phe Val Tyr Leu Leu Leu Ile Gln Pro Val Pro Leu Glu
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Lys 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro

130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu 150 155 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro 165 170 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg 185 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu 195 200 Met Glu Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser 210 215 Gln Val Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser 230 235 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu 245 250 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Lys Ser Arg Lys Lys 265 Arg Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp 280 275 Asp Arg Leu Lys Ser Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln 290 295 Glu Arg Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser 305 310 315 320 Ser Glu Pro Asp Glu Asn Pro Ala Thr Glu Pro Arg Ser Thr Thr Glu 325 330 Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Pro Val Pro Gly Arg Ser 345 Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala 360 365 Arg Ser Pro Ala Thr Gly Arg Thr His Thr Ser Pro Pro Arg Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ser Ser Arg Ser Leu Arg Thr Ala 385 390 395 Gly Val Gln Arg Ile Arg Glu Gln Asp Glu Ser Gly Gln Val Glu Ile 405 410

Ser Ala

```
<211>
       720
       DNA
<212>
<213>
       Homo sapiens
<400>
        19
atgaagagag aaaggggage cetgteeaga geeteeaggg eeetgegeet tgeteetttt
                                                                    60
gtctaccttc ttctgatcca gacagacccc ctggaggggg tgaacatcac cagccccgtg
                                                                    120
cgcctgatcc atggcaccgt ggggaagtcg gctctgcttt ctgtgcagta cagcagtacc
                                                                    180
agcagegaca ggcctgtagt gaagtggcag ctgaageggg acaagccagt gaeegtggtg
                                                                    240
cagtccattg gcacagaggt catcggcacc ctgcggcctg actatcgaga ccgtatccga
                                                                    300
ctctttgaaa atggctccct gcttctcagc gacctgcagc tggccgatga gggcacctat
                                                                    360
gaggtcgaga tctccatcac cgacgacacc ttcactgggg agaagaccat caaccttact
                                                                    420
gtagatgtgc ccatttcgag gccacaggtg ttggtggctt caaccactgt gctggagctc
                                                                    480
agcgaggcct tcaccttgaa ctgctcacat gagaatggca ccaagcccag ctacacctgg
                                                                    540
ctgaaqqatq qcaaqcccct cctcaatqac tcqaqaatqc tcctqtcccc cqaccaaaaq
                                                                    600
gtgctcacca tcacccgcgt gctcatggag gatgacgacc tgtacagctg catggtggag
                                                                    660
aaccccatca gccagggccg cagcctgcct gtcaagatca ccgtatacag aagaagctcc
                                                                    720
<210>
        20
<211>
       240
<212>
       PRT
<213>
       Homo sapiens
<400>
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
                5
                                    10
                                                        15
Leu Ala Pro Phe Val Tyr Leu Leu Ile Gln Thr Asp Pro Leu Glu
```

25

30